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 Article number 1.2 Relevant ide No further relevant 	ouch n' Seal Slow Rise 120 Part A FK600 : EHS3431 – SDS / A
• 1.2 Relevant ide No further releva	
· Application of t	entified uses of the substance or mixture and uses advised against ant information available.
Application of t	he substance / the mixture Polyurethane-sealant
· Manufacturer/S	oducts, division of Clayton Corp. products
ChemTel Inc.	telephone number: +1 (813)248-0585
2 Hazards ider	ntification on of the substance or mixture
	according to Regulation (EC) No 1272/2008
	 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure.
Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1	 Harmful if inhaled. Harmful
	H229 Pressurised container: May burst if heated.
Classification a Xn; Harmful	ccording to Directive 67/548/EEC or Directive 1999/45/EC
R20-40-48/20:	Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger o serious damage to health by prolonged exposure through inhalation.
🗙 Xn; Sensitis	ing

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	(Contd. of page 1)
~	
Xi; Irritant	
R36/37/38:	Irritating to eyes, respiratory system and skin.
Information c	oncerning particular hazards for human and environment:
	as to be labelled due to the calculation procedure of the "General Classification guideline for
	f the EU" in the latest valid version.
	surized container.
 Classification 	
	ation is according to the latest editions of the EU-lists, and extended by company and
literature data.	
The classifica	ation is in accordance with the latest editions of international substances lists, and is
	by information from technical literature and by information provided by the company.
· 2.2 Label elen	nents
	ording to Regulation (EC) No 1272/2008
The product is	classified and labelled according to the CLP regulation.
Hazard pictog	yrams
$\land \land$	
$\langle 1 \rangle \langle 1 \rangle$	
$\sim \sim$	
GHS07 GHS08	8
Signal word D	Danger
· Hazard-deterr	nining components of labelling:
diphenylmetha	nediisocyanate, isomeres and homologues
4,4'-methylene	diphenyl diisocyanate
Hazard staten	nents
H229 Pressuri	sed container: May burst if heated.
H332 Harmful	if inhaled.
H315 Causes	skin irritation.
H319 Causes	serious eye irritation.
	se allergy or asthma symptoms or breathing difficulties if inhaled.
	se an allergic skin reaction.
	se respiratory irritation.
	se damage to organs through prolonged or repeated exposure.
 Precautionary 	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P285	In case of inadequate ventilation wear respiratory protection.
P280	Wear protective gloves / eye protection.
P260	Do not breathe mist/vapours/spray.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
D040. D044	present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 P302+P352	If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.
FJUZTFJJZ	(Contd. on page 3)

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Trade name: <u>Touc</u>	h n' Seal Slow Rise 120 Part A FK600	
		(Contd. of page 2
P403+P233	Store in a well-ventilated place. Keep container	tightly closed.
P501	Dispose of contents/container in accordance v regulations.	with local/regional/national/internationa
Additional info		
Pressurized col pierce or burn, Hazard descrip	otion:	temperatures exceeding 50°C. Do not
• WHMIS-symbo A - Compresse		
	c material causing other toxic effects	
• NFPA ratings (Hea Fire	lth = 2	
	z = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH *2 He	alth = *2	
FIRE 0 Fire	e = 0	
REACTIVITY 1 Re	activity = 1	
· HMIS Long Te	rm Health Hazard Substances	
	enylmethanediisocyanate, isomeres and homologue	es
-	-methylenediphenyl diisocyanate	
· 2.3 Other haza	rds Γ and vPvB assessment	
• PBT: Not applie		
· vPvB: Not appl		
3 Composition	n/information on ingredients	
· 3.2 Mixtures		

- Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

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CAS: 9016-87-9	 diphenylmethanediisocyanate isomeres and homologues Xn R20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3 ♦ Resp. Sens. 1, H334; STOT RE 2, H373 ♦ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 	>50%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate Xn R20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3	25-50
	 Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 	
CAS: 811-97-2 EINECS: 212-377-0	Norflurane	<25%

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

· After eye contact:

Protect unharmed eye. Rinse opened eye for several minutes under running water. Call a doctor immediately. Do not remove contact lenses if worn.

· After swallowing:

Unlikely route of exposure.

Do not induce vomiting; call for medical help immediately.

- · 4.2 Most important symptoms and effects, both acute and delayed
- Asthma attacks Headache Allergic reactions Coughing Breathing difficulty

Dizziness

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• Hazards Danger of impaired breathing.

Danger of pulmonary oedema.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Condition may deteriorate with alcohol consumption.

• **4.3 Indication of any immediate medical attention and special treatment needed** Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

Monitor circulation, possible shock treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Firefighting measures

· 5.1 Extinguishing media

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture
 Danger of receptacles bursting because of high vapour pressure when heated.
 In case of fire, the following can be released:
 Nitrogen oxides (NOx)
 Hydrogen cyanide (HCN)
 Carbon monoxide (CO)
 Under certain fire conditions, traces of other toxic gases cannot be excluded.
 5.3 Advice for firefighters
- Protective equipment:
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
 Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
Remove persons from danger area.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Protect from heat.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
Clean the affected area carefully; suitable cleaners are:
Warm water and cleansing agent

Dispose contaminated material as waste according to item 13.

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· 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling Use only in well ventilated areas. Take note of emission threshold. Ensure good ventilation/exhaustion at the workplace. · Information about fire - and explosion protection: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Observe official regulations on storing packagings with pressurized containers. Store in a cool location. Provide ventilation for receptacles. · Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with acids. Store away from oxidizing agents. · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Protect from heat and direct sunlight. Store receptacle in a well ventilated area. · 7.3 Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

-	\cdot Ingredients with limit values that require monitoring at the workplace:	
101-68-8 4,4	-methylenediphenyl diisocyanate	
PEL (USA)	Short-term value: C 0,2 mg/m ³ , C 0,02 ppm	
REL (USA)	Short-term value: C 0,2* mg/m³, C 0,02* ppm Long-term value: 0,05 mg/m³, 0,005 ppm *10-min	
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(Contd. of page 6) 0.051 mg/m³, 0,005 ppm TLV (USA) EL (Canada) Short-term value: C 0,01 ppm Long-term value: 0,005 ppm Skin; S EV (Canada) 0.005 ppm 811-97-2 Norflurane WEEL (USA) 1000 ppm • DNELs No further relevant information available. PNECs No further relevant information available. · Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. · Material of gloves Fluorocarbon rubber (Viton) The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Not suitable are gloves made of the following materials: Natural rubber, NR · Eve protection: Contact lenses should not be worn. Safety glasses Goggles recommended during refilling (Contd. on page 8)

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• Body protection: Impervious protective clothing

• Limitation and supervision of exposure into the environment No further relevant information available.

• **Risk management measures** See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties		
 9.1 Information on basic physical an General Information Appearance: 	d chemical properties	
Form: Colour: · Odour: · Odour threshold:	Aerosolized liquid with compressed gas in cylind Cream coloured Characteristic Not determined.	ers
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not Determined. Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
 Flammability (solid, gaseous): 	Not applicable.	
 Auto/Self-ignition temperature: 	Not determined.	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not self-igniting.	
 Danger of explosion: 	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	0,4 Vol % Not determined.	
 Vapour pressure at 20 °C: 	5716 hPa	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1,03 g/cm ³ Not determined. Not determined. Not applicable.	
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
 Viscosity: Dynamic: 	Not determined.	(Contd. on page 9)

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Kinematic: • Solvent content: VOC (US EPA Method 24) • 9.2 Other information 0 Stability and reactivity • 10.1 Reactivity • 10.2 Chemical stability • Thermal decomposition / conditions No decomposition if used and stored ac • 10.3 Possibility of hazardous reaction		
VOC (US EPA Method 24) • 9.2 Other information 0 Stability and reactivity • 10.1 Reactivity • 10.2 Chemical stability • Thermal decomposition / conditions No decomposition if used and stored ac • 10.3 Possibility of hazardous reaction	No further relevant information available.	
 9.2 Other information 0 Stability and reactivity 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions No decomposition if used and stored activity 10.3 Possibility of hazardous reaction 	No further relevant information available.	
 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions No decomposition if used and stored ac 10.3 Possibility of hazardous reaction 		
 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions No decomposition if used and stored ac 10.3 Possibility of hazardous reaction 		
 10.2 Chemical stability Thermal decomposition / conditions No decomposition if used and stored ac 10.3 Possibility of hazardous reaction 		
Thermal decomposition / conditions No decomposition if used and stored ac 10.3 Possibility of hazardous reaction		
No decomposition if used and stored ac • 10.3 Possibility of hazardous reaction		
· 10.3 Possibility of hazardous reaction	cording to specifications.	
	•	
Reacts with alcohols, amines, aqueous		
Contact with acids releases toxic gases		
Danger of receptacles bursting because	of high vapour pressure when heated.	
Reacts with oxidizing agents.		
Exothermic polymerization. • 10.4 Conditions to avoid Store away fill	om ovidizing agonto	
• 10.5 Incompatible materials: Contact		
• 10.6 Hazardous decomposition produ		
Carbon monoxide and carbon dioxide		
Ammonia		
Isocyanate		
Nitrogen oxides		

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant

• Sensitisation: Sensitization possible by inhalation and/or dermal contact.

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• Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: The product contains materials that are harmful to the environment.
- 12.2 Persistence and degradability The product is partially biodegradable. Significant residuals remain.
- 12.3 Bioaccumulative potential Does not accumulate in organisms.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Contact waste processors for recycling information.

· Uncleaned packaging:

· Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

14 Transport information

- · 14.1 UN-Number
- \cdot DOT, ADR, IMDG, IATA
- \cdot 14.2 UN proper shipping name
- · DOT, IMDG, IATA

UN3500

Chemical under pressure, n.o.s. (Fluorinated Hydrocarbon, Nitrogen) 3500 CHEMICAL UNDER PRESSURE, N.O.S. (Fluorinated Hydrocarbon, Nitrogen)

· ADR

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14.3 Transport hazard class(es)	(Contd. of page 10
· DOT	
· Class	2.2
· Label	2.2
· ADR	
· Class · Label	2 2.2
	
· Class	2.2
· Label	2.2
 · 14.4 Packing group · DOT, ADR, IMDG, IATA 	Not Regulated
• 14.5 Environmental hazards:	Not Negulated
• Marine pollutant:	No
\cdot 14.6 Special precautions for user	Warning: Gases.
· Danger code (Kemler):	20
 EMS Number: 14.7 Transport in bulk according to Ani 	F-D,S-U
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	120 ml
Transport category	3
 Tunnel restriction code UN "Model Regulation": 	C/E UN3500, CHEMICAL UNDER PRESSURE, N.O.S
	(Fluorinated Hydrocarbon, Nitrogen), 2.2

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 15.1 Safety, health and environmental regulations/legislation specific for the United States (USA) SARA 	e substance or mixtur
 Section 355 (extremely hazardous substances): 	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	
101-68-8 4,4'-methylenediphenyl diisocyanate	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65 (California):	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	CB
101-68-8 4,4'-methylenediphenyl diisocyanate	СВ
IARC (International Agency for Research on Cancer)	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	
101-68-8 4,4'-methylenediphenyl diisocyanate	
 TLV (Threshold Limit Value established by ACGIH) 	
None of the ingredients is listed.	
\cdot NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· Canada	
Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	
101-68-8 4,4'-methylenediphenyl diisocyanate	
Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients is listed.	

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· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- R20 Harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- : Flammable aerosols, Hazard Category 3
- Press. Gas: Gases under pressure: Compressed gas
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Resp. Sens. 1: Sensitisation Respirat., Hazard Category 1
- Skin Sens. 1: Sensitisation Skin, Hazard Category 1
- STOT SE 3: Specific target organ toxicity Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
- Sources SDS Prepared by:
- ChemTel Inc.

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1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com